

WHAT IS CLAIMED IS:

1. A silver halide photographic emulsion comprising silver halide grains, wherein a variation coefficient of equivalent-circle diameters of all the 5 silver halide grains is 30% or less, and 70% or more of the total projected area of the silver halide grains are occupied by silver halide grains each meeting requirements (i), (ii), and (iii) below:

- (i) silver bromochloroiodide tabular grain having 10 (111) faces as main planes,  
(ii) having an epitaxial portion junctioned to at least one apex portion thereof, and  
(iii) having at least one dislocation line in an epitaxial portion thereof.

15 2. The silver halide photographic emulsion according to claim 1, wherein the at least one dislocation lines defined in the requirement (iii) are mesh-like dislocation lines positioned in the epitaxial portion.

20 3. The silver halide photographic emulsion according to claim 1, wherein the epitaxial portions defined in the requirement (ii) are junctioned to all the apex portions of the grain.

25 4. The silver halide photographic emulsion according to claim 1, wherein each of the grains occupying the 70% or more of the total projected area further meeting requirement (iv) below:

(iv) having no dislocation lines in portions  
except for the epitaxial portions thereof.

5        5. The silver halide photographic emulsion  
according to claim 2, wherein each of the grains  
occupying the 70% or more of the total projected area  
further meeting requirement (iv) below:

(iv) having no dislocation lines in portions  
except for the epitaxial portions thereof.

10      6. The silver halide photographic emulsion  
according to claim 3, wherein each of the grains  
occupying the 70% or more of the total projected area  
further meeting requirement (iv) below:

(iv) having no dislocation lines in portions  
except for the epitaxial portions thereof.

15      7. The silver halide photographic emulsion  
according to claim 1, wherein each of the grains  
occupying the 70% or more of the total projected area  
further meeting requirements (v), (vi), and (vii)  
below:

20      (v) the equivalent-circle diameter is 0.3 to  
1.2  $\mu\text{m}$ ,

(vi) the silver chloride content is 1 to 6 mol%,  
and

25      (vii) an amount of an outermost layer thereof  
containing 10 mol% or more of silver iodide is 20% or  
less in terms of silver.

8. The silver halide photographic emulsion

according to claim 2, wherein each of the grains occupying the 70% or more of the total projected area further meeting requirements (v), (vi), and (vii) below:

5 (v) the equivalent-circle diameter is 0.3 to 1.2  $\mu\text{m}$ ,

(vi) the silver chloride content is 1 to 6 mol%, and

10 (vii) an amount of an outermost layer thereof containing 10 mol% or more of silver iodide is 20% or less in terms of silver.

9. The silver halide photographic emulsion according to claim 3, wherein each of the grains occupying the 70% or more of the total projected area further meeting requirements (v), (vi), and (vii) below:

15 (v) the equivalent-circle diameter is 0.3 to 1.2  $\mu\text{m}$ ,

20 (vi) the silver chloride content is 1 to 6 mol%, and

(vii) an amount of an outermost layer thereof containing 10 mol% or more of silver iodide is 20% or less in terms of silver.

10. The silver halide photographic emulsion according to claim 1, wherein each of the grains occupying the 70% or more of the total projected area further meeting requirement (viii) below:

(viii) hexagonal tabular grain in which the ratio of the length of an edge having a maximum length to the length of an edge having a minimum length is 2 or less.

11. The silver halide photographic emulsion  
5 according to claim 2, wherein each of the grains occupying the 70% or more of the total projected area further meeting requirement (viii) below:

(viii) hexagonal tabular grain in which the ratio of the length of an edge having a maximum length to the length of an edge having a minimum length is 2 or less.

12. The silver halide photographic emulsion according to claim 3, wherein each of the grains occupying the 70% or more of the total projected area further meeting requirement (viii) below:

15 (viii) hexagonal tabular grain in which the ratio of the length of an edge having a maximum length to the length of an edge having a minimum length is 2 or less.

13. The silver halide photographic emulsion according to claim 1, wherein each of the grains  
20 occupying the 70% or more of the total projected area further meeting requirement (ix) below:

(ix) the thickness is 0.1  $\mu\text{m}$  or less.

14. The silver halide photographic emulsion according to claim 2, wherein each of the grains  
25 occupying the 70% or more of the total projected area further meeting requirement (ix) below:

(ix) the thickness is 0.1  $\mu\text{m}$  or less.

15. The silver halide photographic emulsion according to claim 3, wherein each of the grains occupying the 70% or more of the total projected area further meeting requirement (ix) below:

5 (ix) the thickness is 0.1  $\mu\text{m}$  or less.

16. The silver halide photographic emulsion according to claim 1, wherein the variation coefficient of the equivalent-circle diameters of all the silver halide grains is 20% or less.

10 17. The silver halide photographic emulsion according to claim 1, wherein each of the grains occupying the 70% or more of the total projected area further meeting requirement (x) below:

15 (x) letting CL mol% be the average silver chloride content of all the silver halide grains, the silver chloride content is within a range of 0.7CL to 1.3CL.

20 18. The silver halide photographic emulsion according to claim 2, wherein each of the grains occupying the 70% or more of the total projected area further meeting requirement (x) below:

(x) letting CL mol% be the average silver chloride content of all the silver halide grains, the silver chloride content is within a range of 0.7CL to 1.3CL.

25 19. The silver halide photographic emulsion according to claim 3, wherein each of the grains occupying the 70% or more of the total projected area further meeting requirement (x) below:

(x) letting CL mol% be the average silver chloride content of all the silver halide grains, the silver chloride content is within a range of 0.7CL to 1.3CL.

20. The silver halide photographic emulsion  
5 according to claim 1, wherein each of the grains occupying the 70% or more of the total projected area further meeting requirement (xi) below:

(xi) letting I mol% be the average silver iodide content of all the silver halide grains, the silver iodide content is within a range of 0.7I to 1.3I.

10 21. The silver halide photographic emulsion according to claim 2, wherein each of the grains occupying the 70% or more of the total projected area further meeting requirement (xi) below:

15 (xi) letting I mol% be the average silver iodide content of all the silver halide grains, the silver iodide content is within a range of 0.7I to 1.3I.

20 22. The silver halide photographic emulsion according to claim 3, wherein each of the grains occupying the 70% or more of the total projected area further meeting requirement (xi) below:

(xi) letting I mol% be the average silver iodide content of all the silver halide grains, the silver iodide content is within a range of 0.7I to 1.3I.

25 23. A silver halide photographic lightsensitive material having at least one lightsensitive silver halide emulsion layer on a support, wherein the

emulsion layer contains an emulsion comprising silver halide grains, wherein a variation coefficient of equivalent-circle diameters of all the silver halide grains is 30% or less, and 70% or more of the total projected area of the silver halide grains are occupied by silver halide grains each meeting requirements (i), (ii), and (iii) below:

- (i) silver bromochloroiodide tabular grain having (111) faces as main planes,
- 10 (ii) having an epitaxial portion junctioned to at least one apex portion thereof, and
- (iii) having at least one dislocation line in an epitaxial portion thereof.

24. The silver halide photographic lightsensitive material according to claim 23, wherein said at least one dislocation lines defined in the requirement (iii) are mesh-like dislocation lines positioned in the epitaxial portion.

25. The silver halide photographic lightsensitive material according to claim 23, wherein the epitaxial portions defined in the requirement (ii) are junctioned to all the apex portions of the grain.